



210	Val	Asn	Pro	Trp	Gly	Glu	Val	Leu	Ala	Lys	Ala	Gly	Thr	Glu	Glu	Ala
225	Ile	Val	Tyr	Ser	Asp	Ile	Asp	Leu	Lys	Lys	Leu	Ala	Glu	Ile	Arg	Gln
					245					250					255	
	Gln	Ile	Pro	Val	Phe	Arg	Gln	Lys	Arg	Ser	Asp	Leu	Tyr	Ala	Val	Glu
				260					265					270		
	Met	Lys	Lys	Pro												
				275												

<210> 2  
 <211> 276  
 <212> PRT  
 <213> mouse

<400> 2	Met	Ser	Thr	Phe	Arg	Leu	Ala	Leu	Ile	Gln	Leu	Gln	Val	Ser	Ser	Ile
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	Lys	Ser	Asp	Asn	Leu	Thr	Arg	Ala	Cys	Ser	Leu	Val	Arg	Glu	Ala	Ala
				20					25					30		
	Lys	Gln	Gly	Ala	Asn	Ile	Val	Ser	Leu	Pro	Glu	Cys	Phe	Asn	Ser	Pro
			35					40					45			
	Tyr	Gly	Thr	Thr	Tyr	Phe	Pro	Asp	Tyr	Ala	Glu	Lys	Ile	Pro	Gly	Glu
		50				55						60				
	Ser	Thr	Gln	Lys	Leu	Ser	Glu	Val	Ala	Lys	Glu	Ser	Ser	Ile	Tyr	Leu
	65					70					75				80	
	Ile	Gly	Gly	Ser	Ile	Pro	Glu	Glu	Asp	Ala	Gly	Lys	Leu	Tyr	Asn	Thr
				85						90					95	
	Cys	Ser	Val	Phe	Gly	Pro	Asp	Gly	Ser	Leu	Leu	Val	Lys	His	Arg	Lys
				100					105					110		
	Ile	His	Leu	Phe	Asp	Ile	Asp	Val	Pro	Gly	Lys	Ile	Thr	Phe	Gln	Glu
			115					120					125			
	Ser	Lys	Thr	Leu	Ser	Pro	Gly	Asp	Ser	Phe	Ser	Thr	Phe	Asp	Thr	Pro
		130					135					140				
	Tyr	Cys	Lys	Val	Gly	Leu	Gly	Ile	Cys	Tyr	Asp	Met	Arg	Phe	Ala	Glu
	145					150				155					160	
	Leu	Ala	Gln	Ile	Tyr	Ala	Gln	Arg	Gly	Cys	Gln	Leu	Leu	Val	Tyr	Pro
				165						170					175	
	Gly	Ala	Phe	Asn	Leu	Thr	Thr	Gly	Pro	Ala	His	Trp	Glu	Leu	Leu	Gln
				180					185					190		
	Arg	Ala	Arg	Ala	Val	Asp	Asn	Gln	Val	Tyr	Val	Ala	Thr	Ala	Ser	Pro
			195					200					205			
	Ala	Arg	Asp	Asp	Lys	Ala	Ser	Tyr	Val	Ala	Trp	Gly	His	Ser	Thr	Val
		210					215					220				
	Val	Asp	Pro	Trp	Gly	Gln	Val	Leu	Thr	Lys	Ala	Gly	Thr	Glu	Glu	Thr
	225					230					235				240	
	Ile	Leu	Tyr	Ser	Asp	Ile	Asp	Leu	Lys	Lys	Leu	Ala	Glu	Ile	Arg	Gln
				245						250					255	
	Gln	Ile	Pro	Ile	Leu	Lys	Gln	Lys	Arg	Ala	Asp	Leu	Tyr	Thr	Val	Glu
				260					265					270		
	Ser	Lys	Lys	Pro												
				275												

<210> 3  
 <211> 288

<212> PRT  
 <213> X. laevis

<400> 3

Met	Ala	Gly	Ala	His	Lys	Pro	Leu	Ile	Ala	Val	Cys	Gln	Met	Thr	Ser
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Thr	Ser	Asp	Lys	Glu	Lys	Asn	Phe	Ala	Thr	Cys	Ser	Arg	Leu	Ile	Arg
			20					25					30		
Glu	Ala	Ala	Gly	Arg	Arg	Ala	Cys	Met	Val	Phe	Leu	Pro	Glu	Ala	Phe
		35					40					45			
Asp	Tyr	Ile	Gly	Gly	Ser	Ile	Glu	Glu	Thr	Leu	Ser	Leu	Ala	Glu	Ser
	50					55					60				
Leu	His	Gly	Asp	Thr	Ile	Gln	Arg	Tyr	Thr	Gln	Leu	Ala	Arg	Glu	Cys
65					70					75				80	
Gly	Leu	Trp	Leu	Ser	Leu	Gly	Gly	Phe	His	Glu	Lys	Gly	Pro	Asn	Trp
				85				90						95	
Asp	Thr	Asp	Gln	Arg	Ile	Ser	Asn	Ser	His	Val	Val	Val	Asp	Asn	Thr
			100					105					110		
Gly	His	Ile	Val	Ser	Val	Tyr	Arg	Lys	Ala	His	Leu	Phe	Asp	Val	Asp
		115					120					125			
Leu	Gln	Asn	Gly	Val	Ser	Leu	Arg	Glu	Ser	Ser	Ser	Thr	Leu	Pro	Gly
		130				135					140				
Ala	Glu	Leu	Ile	Arg	Pro	Ile	Thr	Ser	Pro	Ala	Gly	Lys	Ile	Gly	Leu
145					150					155					160
Gly	Val	Cys	Tyr	Asp	Leu	Arg	Phe	Pro	Glu	Phe	Ser	Leu	Ala	Leu	Ala
				165					170					175	
Gln	Gln	Gly	Ala	Glu	Leu	Leu	Thr	Tyr	Pro	Ser	Ala	Phe	Thr	Leu	Thr
			180					185					190		
Thr	Gly	Leu	Ala	His	Trp	Glu	Val	Leu	Leu	Arg	Ala	Arg	Ala	Ile	Glu
		195					200					205			
Thr	Gln	Cys	Tyr	Val	Val	Ala	Ala	Ala	Gln	Thr	Asp	Arg	His	Asn	Glu
		210				215					220				
Lys	Arg	Thr	Ser	Tyr	Gly	His	Ala	Met	Val	Val	Asp	Pro	Trp	Gly	Leu
225					230					235					240
Val	Ile	Gly	Gln	Cys	Gln	Glu	Gly	Thr	Gly	Ile	Cys	Tyr	Ala	Glu	Ile
				245					250					255	
Asp	Ile	Pro	Tyr	Met	Glu	Arg	Val	Arg	Arg	Asp	Met	Pro	Val	Trp	Arg
			260					265					270		
His	Arg	Arg	Thr	Asp	Leu	Tyr	Gly	Lys	Ile	Ser	Phe	Asn	Lys	Pro	Asp
		275					280					285			

<210> 4

<211> 307

<212> PRT

<213> S. cerevisiae

<400> 4

Met	Thr	Ser	Lys	Leu	Lys	Arg	Val	Ala	Val	Ala	Gln	Leu	Cys	Ser	Ser
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Ala	Asp	Leu	Thr	Lys	Asn	Leu	Lys	Val	Val	Lys	Glu	Leu	Ile	Ser	Glu
			20					25					30		
Ala	Ile	Gln	Lys	Lys	Ala	Asp	Val	Val	Phe	Leu	Pro	Glu	Ala	Ser	Asp
		35					40					45			
Tyr	Leu	Ser	Gln	Asn	Pro	Leu	His	Ser	Arg	Tyr	Leu	Ala	Gln	Lys	Ser
	50					55					60				

Pro Lys Phe Ile Arg Gln Leu Gln Ser Ser Ile Thr Asp Leu Val Arg  
 65 70 75 80  
 Asp Asn Ser Arg Asn Ile Asp Val Ser Ile Gly Val His Leu Pro Pro  
 85 90 95  
 Ser Glu Gln Asp Leu Leu Glu Gly Asn Asp Arg Val Arg Asn Val Leu  
 100 105 110  
 Leu Tyr Ile Asp His Glu Gly Lys Ile Leu Gln Glu Tyr Gln Lys Leu  
 115 120 125  
 His Leu Phe Asp Val Asp Val Pro Asn Gly Pro Ile Leu Lys Glu Ser  
 130 135 140  
 Lys Ser Val Gln Pro Gly Lys Ala Ile Pro Asp Ile Ile Glu Ser Pro  
 145 150 155 160  
 Leu Gly Lys Leu Gly Ser Ala Ile Cys Tyr Asp Ile Arg Phe Pro Glu  
 165 170 175  
 Phe Ser Leu Lys Leu Arg Ser Met Gly Ala Glu Ile Leu Cys Phe Pro  
 180 185 190  
 Ser Ala Phe Thr Ile Lys Thr Gly Glu Ala His Trp Glu Leu Leu Gly  
 195 200 205  
 Arg Ala Arg Ala Val Asp Thr Gln Cys Tyr Val Leu Met Pro Gly Gln  
 210 215 220  
 Val Gly Met His Asp Leu Ser Asp Pro Glu Trp Glu Lys Gln Ser His  
 225 230 235 240  
 Met Ser Ala Leu Glu Lys Ser Ser Arg Arg Glu Ser Trp Gly His Ser  
 245 250 255  
 Met Val Ile Asp Pro Trp Gly Lys Ile Ile Ala His Ala Asp Pro Ser  
 260 265 270  
 Thr Val Gly Pro Gln Leu Ile Leu Ala Asp Leu Asp Arg Glu Leu Leu  
 275 280 285  
 Gln Glu Ile Arg Asn Lys Met Pro Leu Trp Asn Gln Arg Arg Asp Asp  
 290 295 300  
 Leu Phe His  
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<210> 5  
 <211> 291  
 <212> PRT  
 <213> S. cerevisiae

<400> 5  
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 Ala Thr Phe Ile Glu Arg Ala Met Lys Glu Gln Pro Asp Thr Lys Leu  
 35 40 45  
 Val Val Leu Pro Glu Cys Phe Asn Ser Pro Tyr Ser Thr Asp Gln Phe  
 50 55 60  
 Arg Lys Tyr Ser Glu Val Ile Asn Pro Lys Glu Pro Ser Thr Ser Val  
 65 70 75 80  
 Gln Phe Leu Ser Asn Leu Ala Asn Lys Phe Lys Ile Ile Leu Val Gly  
 85 90 95  
 Gly Thr Ile Pro Glu Leu Asp Pro Lys Thr Asp Lys Ile Tyr Asn Thr  
 100 105 110  
 Ser Ile Ile Phe Asn Glu Asp Gly Lys Leu Ile Asp Lys His Arg Lys  
 115 120 125

Val	His	Leu	Phe	Asp	Val	Asp	Ile	Pro	Asn	Gly	Ile	Ser	Phe	His	Glu
130					135						140				
Ser	Glu	Thr	Leu	Ser	Pro	Gly	Glu	Lys	Ser	Thr	Thr	Ile	Asp	Thr	Lys
145					150						155				160
Tyr	Gly	Lys	Phe	Gly	Val	Gly	Ile	Cys	Tyr	Asp	Met	Arg	Phe	Pro	Glu
				165					170						175
Leu	Ala	Met	Leu	Ser	Ala	Arg	Lys	Gly	Ala	Phe	Ala	Met	Ile	Tyr	Pro
				180					185					190	
Ser	Ala	Phe	Asn	Thr	Val	Thr	Gly	Pro	Leu	His	Trp	His	Leu	Leu	Ala
	195						200					205			
Arg	Ser	Arg	Ala	Val	Asp	Asn	Gln	Val	Tyr	Val	Met	Leu	Cys	Ser	Pro
	210					215					220				
Ala	Arg	Asn	Leu	Gln	Ser	Ser	Tyr	His	Ala	Tyr	Gly	His	Ser	Ile	Val
225					230					235					240
Val	Asp	Pro	Arg	Gly	Lys	Ile	Val	Ala	Glu	Ala	Gly	Glu	Gly	Glu	Glu
				245					250					255	
Ile	Ile	Tyr	Ala	Glu	Leu	Asp	Pro	Glu	Val	Ile	Glu	Ser	Phe	Arg	Gln
			260					265					270		
Ala	Val	Pro	Leu	Thr	Lys	Gln	Arg	Arg	Phe	Asp	Val	Tyr	Ser	Asp	Val
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Asn	Ala	His													
	290														

<210> 6  
 <211> 276  
 <212> PRT  
 <213> S. pombe

<400> 6															
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		20						25					30		
Gly	Ala	Lys	Cys	Ile	Phe	Phe	Pro	Glu	Ala	Ser	Asp	Phe	Ile	Ala	His
		35					40					45			
Asn	Ser	Asp	Glu	Ala	Ile	Glu	Leu	Thr	Asn	His	Pro	Asp	Cys	Ser	Lys
	50					55					60				
Phe	Ile	Arg	Asp	Val	Arg	Glu	Ser	Ala	Thr	Lys	His	Ser	Ile	Phe	Val
65					70					75					80
Asn	Ile	Cys	Val	His	Glu	Pro	Ser	Lys	Val	Lys	Asn	Lys	Leu	Leu	Asn
			85						90					95	
Ser	Ser	Leu	Phe	Ile	Glu	Pro	Leu	His	Gly	Glu	Ile	Ile	Ser	Arg	Tyr
		100						105					110		
Ser	Lys	Ala	His	Leu	Phe	Asp	Val	Glu	Ile	Lys	Asn	Gly	Pro	Thr	Leu
		115					120					125			
Lys	Glu	Ser	Asn	Thr	Thr	Leu	Arg	Gly	Glu	Ala	Ile	Cys	Phe	Pro	Cys
	130					135						140			
Lys	Thr	Pro	Leu	Gly	Lys	Val	Gly	Ser	Ala	Ile	Cys	Phe	Asp	Ile	Arg
145					150					155					160
Phe	Pro	Glu	Gln	Ala	Ile	Lys	Leu	Arg	Asn	Met	Gly	Ala	His	Ile	Ile
			165						170					175	
Thr	Tyr	Pro	Ser	Ala	Phe	Thr	Glu	Lys	Thr	Gly	Ala	Ala	His	Trp	Glu
		180						185					190		
Val	Leu	Leu	Arg	Ala	Arg	Ala	Leu	Asp	Ser	Gln	Cys	Tyr	Val	Ile	Ala
		195					200					205			

Pro	Ala	Gln	Gly	Gly	Lys	His	Asn	Glu	Lys	Arg	Ala	Ser	Tyr	Gly	His
210						215					220				
Ser	Met	Ile	Val	Asp	Pro	Trp	Gly	Thr	Val	Ile	Ala	Gln	Tyr	Ser	Asp
225					230					235					240
Ile	Ser	Ser	Pro	Asn	Gly	Leu	Ile	Phe	Ala	Asp	Leu	Asp	Leu	Asn	Leu
				245					250					255	
Val	Asp	His	Val	Arg	Thr	Tyr	Ile	Pro	Leu	Leu	Arg	Arg	Asn	Asp	Leu
			260					265					270		
Tyr	Pro	Thr	Ile												
			275												

<210> 7  
 <211> 322  
 <212> PRT  
 <213> S. pombe

<400> 7

Met	Asn	Ser	Lys	Phe	Phe	Gly	Leu	Val	Gln	Lys	Gly	Thr	Arg	Ser	Phe
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Phe	Pro	Ser	Leu	Asn	Phe	Cys	Tyr	Thr	Arg	Asn	Ile	Met	Ser	Val	Ser
			20					25					30		
Ala	Ser	Ser	Leu	Val	Pro	Lys	Asp	Phe	Arg	Ala	Phe	Arg	Ile	Gly	Leu
		35					40					45			
Val	Gln	Leu	Ala	Asn	Thr	Lys	Asp	Lys	Ser	Glu	Asn	Leu	Gln	Leu	Ala
	50					55					60				
Arg	Leu	Lys	Val	Leu	Glu	Ala	Ala	Lys	Asn	Gly	Ser	Asn	Val	Ile	Val
65					70					75				80	
Leu	Pro	Glu	Ile	Phe	Asn	Ser	Pro	Tyr	Gly	Thr	Gly	Tyr	Phe	Asn	Gln
				85					90					95	
Tyr	Ala	Glu	Pro	Ile	Glu	Glu	Ser	Ser	Pro	Ser	Tyr	Gln	Ala	Leu	Ser
			100					105					110		
Ser	Met	Ala	Lys	Asp	Thr	Lys	Thr	Tyr	Leu	Phe	Gly	Gly	Ser	Ile	Pro
		115					120					125			
Glu	Arg	Lys	Asp	Gly	Lys	Leu	Tyr	Asn	Thr	Ala	Met	Val	Phe	Asp	Pro
	130					135					140				
Ser	Gly	Lys	Leu	Ile	Ala	Val	His	Arg	Lys	Ile	His	Leu	Phe	Asp	Ile
145					150					155				160	
Asp	Ile	Pro	Gly	Gly	Val	Ser	Phe	Arg	Glu	Ser	Asp	Ser	Leu	Ser	Pro
				165					170					175	
Gly	Asp	Ala	Met	Thr	Met	Val	Asp	Thr	Glu	Tyr	Gly	Lys	Phe	Gly	Leu
			180					185					190		
Gly	Ile	Cys	Tyr	Asp	Ile	Arg	Phe	Pro	Glu	Leu	Ala	Met	Ile	Ala	Ala
		195					200					205			
Arg	Asn	Gly	Cys	Ser	Val	Met	Ile	Tyr	Pro	Gly	Ala	Phe	Asn	Leu	Ser
	210					215					220				
Thr	Gly	Pro	Leu	His	Trp	Glu	Leu	Leu	Ala	Arg	Ala	Arg	Ala	Val	Asp
225					230					235				240	
Asn	Glu	Met	Phe	Val	Ala	Cys	Cys	Ala	Pro	Ala	Arg	Asp	Met	Asn	Ala
			245						250					255	
Asp	Tyr	His	Ser	Trp	Gly	His	Ser	Thr	Val	Val	Asp	Pro	Phe	Gly	Lys
			260					265					270		
Val	Ile	Ala	Thr	Thr	Asp	Glu	Lys	Pro	Ser	Ile	Val	Tyr	Ala	Asp	Ile
		275					280					285			
Asp	Pro	Ser	Val	Met	Ser	Thr	Ala	Arg	Asn	Ser	Val	Pro	Ile	Tyr	Thr
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Gln Arg Arg Phe Asp Val Tyr Ser Glu Val Leu Pro Ala Leu Lys Lys  
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 Glu Glu

<210> 8  
 <211> 1359  
 <212> DNA  
 <213> Homo sapien

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 caaggagcca aaatagtttc tttgccggaa tgctttaatt ctccatatgg agcgaaatat 180  
 tttcctgaat atgcagagaa aattcctggg gaatccacac agaagctttc tgaagtagca 240  
 aaggaaatgca gcatatatct cattggaggc tctatccctg aagaggatgc tgggaaatta 300  
 tataacacct gtgctgtgtt tgggcctgat ggaactttac tagcaaagta tagaaagatc 360  
 catctgtttg acattgatgt tcctggaaaa attacatttc aagaatctaa aacattgagt 420  
 ccgggtgata gtttctccac atttgatact ccttactgca gagtgggtct gggcatctgc 480  
 tacgacatgc ggtttgcaga gcttgcacaa atctacgcac agagaggctg ccagctgttg 540  
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 gcctcctatg ttgcctgggg acacagcacc gtggtgaacc cttgggggga ggttctagcc 720  
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 aaaaagccct aaagtttatg tttctaattg gtcacagaat aggacgatat gattctacaa 900  
 cataatcaac tccctattaa attctttaat gaagaaaaaa aatttaaaaa aaaaaaaaaa 960  
 aacctaggtt ctctattgag atgagaaagc ctcattatgc tgacattttc cagccacat 1020  
 taaatagtta aaaaggatgc agcctggagc cagagagcag aaagctgggc tggttctgaa 1080  
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<210> 9  
 <211> 1292  
 <212> DNA  
 <213> mouse

<400> 9  
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 agcctagtgc gggaggcagc aaagcaagggt gccaacatag tttctctgcc tgagtgttc 180  
 aattctccat atggaacaac ctactttcct gactatgcag agaagattcc tggagagtcc 240  
 acacaaaagc tttctgaagt agcaaaggag agcagcatat atctcattgg aggcctccatc 300  
 cctgaagagg atgctgggaa actgtataat acctgctctg tgtttgggac tgatggaagt 360  
 ttactggtaa agcacaggaa gatccatctg tttgacattg atgttcctgg gaaaattacg 420  
 tttcaagaat ctaaaacatt gagccctggg gatagtttct ccacatttga tacgccttac 480  
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 gcacaaagag gctgccagct cttgggtgtat cctggagctt tcaatctgac cacaggacca 600  
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 gatccttggg ggcaggtcct aaccaaagct ggcacggagg aaacaatcct gtactcagac 780  
 atagacctga agaagctggc tgaaattcgg cagcaaattc ccatttttaa acagaaacga 840

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ggaacagggc	catttcatgt	taattctatc	aatgatctgt	gccacaaggt	cccctatttt	1020
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gtctgatggg	tcctaggcat	ttcagtccca	agatcctttt	gaacaattaa	aaactgaagc	1140
ctctaagcat	tgtttccatg	tgtggtgggc	tggtcccatc	tgtctgagaa	aatgtacatt	1200
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ttattaaaaa	ttgttttcat	acaataaaaa	aa			1292

<210> 10  
 <211> 1214  
 <212> DNA  
 <213> X. laevis

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tggtctgagtc	tctacatggg	gacaccatc	agcgttacac	ccaactcgcc	agggagtgtg	420
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aggctcacct	gtttgacgta	gacttgcaga	atggagtgtc	actcagagag	agcagttcca	600
ccctccccgg	agcagagctt	attcgcccc	tcacttctcc	agcaggaaag	attggcctgg	660
gggtgtgtta	cgacctccgc	ttcccagaat	tctccttggc	tctggcccaa	caaggagcag	720
aacttctcac	ttacctttct	gccttcaccc	tcactactgg	tctggcacat	tgggaggtgt	780
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gacacaatga	gaagaggacg	tcctatggtc	acgctatggg	ggtagaccgc	tgggggctgg	900
tcattggcca	atgccaggaa	ggaacaggaa	tatgttatgc	tgagattgac	attccctaca	960
tggagcgtgt	gaggcgggac	atgccggtgt	ggaggcaccg	caggactgat	ctgtatggga	1020
aaatctcctt	taataaaccc	gactgactcc	ataatggatc	acctgcacct	atggggggcaa	1080
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